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10/653,216	09/03/2003	Takanori Masui	116970	2609
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/653,216	MASUI ET AL.			
Office Action Summary	Examiner	Art Unit			
	SHEWAYE GELAGAY	2437			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statuly Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on 16 July 2009. This action is FINAL. This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) Claim(s) 2-13,15,16 and 18-28 is/are pending 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 2-13,15,16 and 18-28 is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the	awn from consideration. d. or election requirement. ner. cepted or b) □ objected to by the				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/16/09.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

1. This Office Action is in response to the Applicant's amendment filed on 7/16/09. Claims 19 and 20 have been amended. Claims 2-13, 15-16 and 18-28 are pending.

Response to Arguments

2. Applicant's arguments filed on 7/16/09 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2-4, 15-16, 19-20, 24 and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Russ et al. (hereinafter Russ) U.S. Publication 2003/0219127 in view of Saito U.S. Patent 7,093,295 in view of Hutchison US 2003/0145218 and in view of Fujiwara US 2002/0133543.

As per claims 19 and 20:

Russ teaches an information processing device comprising:

a data input interface for inputting an input data that is one of an encrypted data and non-encrypted data; (figure 6; page 11, paragraphs 104-109)

a decryption module for decrypting the encrypted data; (figure 6; page 11, paragraphs 104-109; ...the cryptographic device decrypts the service instance using the control word provided by the secure element)

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an encryption module for encrypting data that has been decrypted by the decryption module or the non-encrypted data; (figure 6; page 11, paragraphs 104-109; ... the cryptographic device encrypts the service instance using an encryption scheme that was dynamically negotiated by the DSCT and the client) and

a storage device for storing data; (figure 6; page 9, paragraph 82; page 11, paragraphs 104-109)

a deciding device for deciding whether the input data is encrypted data, whether to store the input data and whether to encrypt data decrypted by the decryption module, (figure 6; page 11, paragraphs 104-109; ...processor determines an encryption scheme for the selected service instance. The encryption scheme can be either to encrypt or not encrypt the selected service instance. This determination is made for the decrypted service instance)

wherein the decryption module decrypts the encrypted data using a decryption key forming a pair with a first encryption key used to encrypt the data, (figure 6; page 11, paragraphs 104-109; ...the cryptographic device decrypts the service instance using the control word provided by the secure element)

the encryption module encrypts the decrypted data, which has been decrypted by the decryption module, decided upon for encryption by the deciding device using a second encryption key different from the first encryption key, (figure 6; page 11,

paragraphs 104-109; ... the cryptographic device encrypts the service instance using an encryption scheme that was dynamically negotiated by the DSCT and the client)

the storage device stores the encrypted data encrypted by the encryption module and the non-encrypted data decided upon for storing by the deciding device. (figure 6; page 9, paragraph 82; page 11, paragraphs 104-109)

Russ does not explicitly teach a decryption module decrypts encrypted data encrypted by the encryption module and stored in the storage device using the second encryption key. Saito in analogous art, however, discloses teach a decryption module decrypts encrypted data encrypted by the encryption module and stored in the storage device using the second encryption key. (col. 6, lines 20-44) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ with Saito in order to automatically handle reencryption and re-decryption of stored data using a key that is stored in the device.

Both references do not explicitly disclose the decrypted data decrypted by the decryption module or the non-encrypted data is to be at least one of: (i) stored in the storage device with the encryption module encrypting the decrypted data or the non-encrypted data and (ii) stored in the storage device without the encryption module encrypting the decrypted data when the deciding device decides that the decrypted data is to be stored in the storage device. Hutchison in analogous art, however, discloses the decrypted data decrypted by the decryption module or the non-encrypted data is to be at least one of: (i) stored in the storage device with the encryption module encrypting the decrypted data or the non-encrypted data and (ii) stored in the storage device

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without the encryption module encrypting the decrypted data when the deciding device decides that the decrypted data is to be stored in the storage device. (paragraph 19, 20-23, 31-36) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ and Saito and Russ and Saito with Hutchison in order to protect data within any system in which image data is scanned and retained for subsequent printing. (paragraph 3, Hutchison)

None of the references explicitly disclose the deciding device decides that the decrypted data decrypted by the decryption module and the non-encrypted data is either to be printed without the encryption module encrypting the decrypted data or the non-encrypted data, or to be stored in the storage device, based on a job classification, storage time and confidentiality. Fujiwara in analogous art, however, discloses the deciding device decides that the decrypted data decrypted by the decryption module and the non-encrypted data is either to be printed without the encryption module encrypting the decrypted data or the non-encrypted data, or to be stored in the storage device, based on a job classification, storage time and confidentiality. (figure 8; [0049] [0078] [0079]) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito and Hutchison with Fujiwara in order to allow users to set up various conditions including storage period and confidentiality level. ([0048]-[0049]; Fujiwara)

As per claim 2:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. In addition, Saito further discloses wherein the key

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generator generates the second encryption key when power to the device is turned on. (col. 5, lines 65-67)

As per claim 3:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. In addition, Russ further discloses wherein the data input interface also inputs unencrypted data, and the encryption module also encrypts unencrypted data input by the data input interface. (figure 6; page 11, paragraphs 104-109; ...the determination is made for the decrypted service instance and for unencrypted service instances)

As per claim 4:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. In addition, Saito further discloses a key generator for generating the second encryption key. (col. 7, lines 49-57)

As per claims 15:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. In addition, Russ further discloses deciding means for deciding whether or not to encrypt data inputted by the data input interface, wherein the encryption module encrypts data decided upon for encryption by the deciding means. (figure 6; page 11, paragraphs 104-109)

As per claim 16:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. In addition, Russ further discloses a printer for decrypting

and printing data stored in the storage device. (figures 8, 11; page 5, pp. 80; page 7, pp. 89)

As per claims 24 and 26-27:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. In addition, Saito further discloses wherein deciding means whether to encrypt data decrypted by the decryption module is based on confidentiality information of the input data. (col. 6, lines 20-44)

3. Claims 5-13 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Russ et al. (hereinafter Russ) U.S. Publication 2003/0219127 in view of Saito U.S. Patent 7,093,295 in view of Hutchison US 2003/0145218 and in view of Fujiwara US 2002/0133543 and further in view of Blakley III, (hereinafter Blakley) U.S. Patent 5,677,952.

As per claim 5:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose a memory controller for storing the second encryption key in the volatile memory. Blakley in analogous art, however, discloses a memory controller for storing the second encryption key in the volatile memory. (col. 6, lines 48-57) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Blakley in order to erase secret keys when the authorized user powers off the device. (col. 6, lines 48-57; Blakley)

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As per claim 6

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose wherein the key generator generates the second encryption key using information characteristic to the device itself. Blakley in analogous art, however, discloses wherein the key generator generates the second encryption key using information characteristic to the device itself. (col. 5, lines 41-60) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Blakley in order to enhance the security of the key by utilizing an identification that is unique to each device. (col. 6, lines 48-57; Blakley) As per claim 7:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose wherein the key generator generates the second encryption key when power to the device is turned on. Blakley in analogous art, however, discloses wherein the key generator generates the second encryption key when power to the device is turned on. (col. 6, lines 48-57) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Blakley in order to erase secret keys when the authorized user powers off the device. (col. 6, lines 48-57; Blakley)

As per claims 8-10:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose a media reader capable of being installed with a removable portable storage media storing key generation parameters for reading a key generation parameter stored on the installed portable storage media, wherein the key generator generates the second encryption key using the key generation parameter. Blakley in analogous art, however, discloses a media reader capable of being installed with a removable portable storage media storing key generation parameters for reading a key generation parameter stored on the installed portable storage media, wherein the key generator generates the second encryption key using the key generation parameter. (col. 5, lines 41-60) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Blakley in order to enhance the security of the key by utilizing an identification that is unique to each device. (col. 6, lines 48-57; Blakley)

As per claims 11 and 12:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose a media reader capable of being installed with a removable portable storage media storing the encryption key, wherein the encryption module reads the second encryption key from the portable storage media installed in the media reader and performs encryption. Blakley in analogous art, however, discloses a media reader capable of being installed with a removable portable storage media storing the encryption key, wherein the

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encryption module reads the second encryption key from the portable storage media installed in the media reader and performs encryption. (col. 4, lines 40-65) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Blakley in order to enhance the security of the key by utilizing an identification that is unique to each device. (col. 6, lines 48-57; Blakley)

As per claim 13:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose having encryption keys corresponding to each user using the device, wherein the encryption module performs encryption using an encryption key for the user corresponding to the data. Blakley in analogous art, however, discloses having encryption keys corresponding to each user using the device, wherein the encryption module performs encryption using an encryption key for the user corresponding to the data. (col. 6, lines 48-57) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Blakley in order to erase secret keys when the authorized user logs off. (col. 6, lines 48-57; Blakley)

As per claim 18:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose a memory controller for storing the second encryption key in the volatile memory. Blakley in

analogous art, however, discloses a memory controller for storing the second encryption key in the volatile memory. (col. 6, lines 48-57) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Blakley in order to erase secret keys when the authorized user powers off the device. (col. 6, lines 48-57; Blakley)

4. Claims 21-23, 25 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Russ et al. (hereinafter Russ) U.S. Publication 2003/0219127 in view of Saito U.S. Patent 7,093,295 in view of Hutchison US 2003/0145218 and in view of Fujiwara US 2002/0133543 and further in view of Foster et al. (hereinafter Foster) U.S. 2002/0184518.

As per claims 21 and 28:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose wherein deciding based on a job classification information of the input data. Foster in analogous art, however teaches wherein deciding based on a job classification information of the input data. (page 9, pp. 96-99) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Foster in order to allow users to generate specific tasks and to control the requested task accordingly. (page 1, pp. 2; Foster) As per claims 22-23 and 25:

The combination of Russ, Saito, Hutchison and Fujiwara teaches all the subject matter as discussed above. None of the references do explicitly disclose deciding

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whether to store the input data is based on attribute information of the input data. Foster in analogous art, however teaches deciding whether to store the input data is based on attribute information of the input data. (page 5, pp.61; page 9, pp. 96-99) Therefore, it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the device disclosed by Russ, Saito, Hutchison and Fujiwara with Foster in order to allow users to generate specific tasks and to control the requested task accordingly. (page 1, pp. 2; Foster)

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHEWAYE GELAGAY whose telephone number is (571)272-4219. The examiner can normally be reached on 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shewaye Gelagay/ Examiner, Art Unit 2437

/Emmanuel L. Moise/ Supervisory Patent Examiner, Art Unit 2437